

GeometryQuiz08: Circles and Arcs

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Question 1

Calculate the length of an arc with a radius of 12 cm and a central angle of 45° .

Question 2

If a circle has a circumference of 31.4 cm, find its diameter.

Question 3

In a circle with radius 10 cm, find the area of a sector with a central angle of 90° .

Question 4

Determine the radius of a circle if an arc with a 60° central angle is 8 cm long.

Question 5

Find the length of the arc of a circle with a radius of 7 cm and a central angle of 30° .

Question 6

Calculate the area of a circle with a radius of 15 cm.

Question 7

A circle has an area of 154 cm^2 . Find the radius of the circle.

Question 8

What is the measure of a central angle in a circle if an arc of length 10 cm subtends it in a circle of radius 5 cm?

Question 9

Determine the circumference of a circle with diameter 14 cm.

Question 10

Find the radius of a circle if its circumference is 50.24 cm.